

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/525, 838
Source: PLT
Date Processed by STIC: 1-26-06

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 01/26/2006

PATENT APPLICATION: US/10/525,838

TIME: 09:29:47

Input Set : A:\JP2003-301176 Seq. Listing.txt

Output Set: N:\CRF4\01262006\J525838.raw

3 <110> APPLICANT: Takeda Chemical Industries, Ltd.
 5 <120> TITLE OF INVENTION: CXCR4 Antagonist And Its Use
 7 <130> FILE REFERENCE: B03181
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/525,838
 C--> 10 <141> CURRENT FILING DATE: 2005-02-25
 12 <160> NUMBER OF SEQ ID NOS: 68
 14 <170> SOFTWARE: PatentIn version 3.3
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 14
 18 <212> TYPE: PRT
 19 <213> ORGANISM: Artificial
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: Synthetic
 25 <220> FEATURE:
 26 <221> NAME/KEY: MISC_FEATURE
 27 <222> LOCATION: (1)..(1)
 28 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu which
 29 may be derived at the N-terminal, or is deleted.
 31 <220> FEATURE:
 32 <221> NAME/KEY: MISC_FEATURE
 33 <222> LOCATION: (1)..(14)
 34 <223> OTHER INFORMATION: L-amino acid or D-amino acid
 36 <220> FEATURE:
 37 <221> NAME/KEY: MISC_FEATURE
 38 <222> LOCATION: (2)..(2)
 39 <223> OTHER INFORMATION: When Xaa of (1) is Arg, Lys, ornithine, citrulline, Ala or
 40 Glu which may be derived at the N-terminal, Xaa is Arg or Glu,
 41 and when Xaa of (1) is deleted, Xaa is Arg or Glu which may be
 43 <220> FEATURE:
 44 <221> NAME/KEY: MISC_FEATURE
 45 <222> LOCATION: (3)..(3)
 46 <223> OTHER INFORMATION: Xaa is an aromatic amino acid residue.
 48 <220> FEATURE:
 49 <221> NAME/KEY: MISC_FEATURE
 50 <222> LOCATION: (4)..(13)
 51 <223> OTHER INFORMATION: Cys at 4-position and Cys at 13-position may be linked by
 52 disulfid bond.
 54 <220> FEATURE:
 55 <221> NAME/KEY: MISC_FEATURE
 56 <222> LOCATION: (6)..(6)
 57 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
 59 <220> FEATURE:
 60 <221> NAME/KEY: MISC_FEATURE

(pg. 6-7)

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61 <222> LOCATION: (7)..(7)
62 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
64 <220> FEATURE:
65 <221> NAME/KEY: MISC_FEATURE
66 <222> LOCATION: (8)..(8)
67 <223> OTHER INFORMATION: Xaa is Pro, Gly, ornithine, Lys, Ala, citrulline, Arg or
68   Glu.
70 <220> FEATURE:
71 <221> NAME/KEY: MISC_FEATURE
72 <222> LOCATION: (9)..(9)
73 <223> OTHER INFORMATION: Xaa is Pro, Gly, ornithine, Lys, Ala, citrulline or Arg.
75 <220> FEATURE:
76 <221> NAME/KEY: MISC_FEATURE
77 <222> LOCATION: (10)..(10)
78 <223> OTHER INFORMATION: Xaa is Tyr, Phe, Ala, naphthyl Ala, citrulline or Glu.
80 <220> FEATURE:
81 <221> NAME/KEY: MISC_FEATURE
82 <222> LOCATION: (11)..(11)
83 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
85 <220> FEATURE:
86 <221> NAME/KEY: MISC_FEATURE
87 <222> LOCATION: (12)..(12)
88 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
90 <220> FEATURE:
91 <221> NAME/KEY: MISC_FEATURE
92 <222> LOCATION: (14)..(14)
93 <223> OTHER INFORMATION: Xaa is Arg, Glu, Lys or citrulline which may be derived at
94   the C-terminal.
96 <400> SEQUENCE: 1
W--> 98 Xaa Xaa Xaa Cys Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa
99 1           5           10
102 <210> SEQ ID NO: 2
103 <211> LENGTH: 14
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial
107 <220> FEATURE:
108 <223> OTHER INFORMATION: Synthetic
111 <220> FEATURE:
112 <221> NAME/KEY: MISC_FEATURE
113 <222> LOCATION: (1)..(1)
114 <223> OTHER INFORMATION: Xaa is Glu which may be derived at the N-terminal, or is
115   deleted.
117 <220> FEATURE:
118 <221> NAME/KEY: MISC_FEATURE
119 <222> LOCATION: (1)..(14)
120 <223> OTHER INFORMATION: L-amino acid or D-amino acid
122 <220> FEATURE:
123 <221> NAME/KEY: MISC_FEATURE
124 <222> LOCATION: (2)..(2)

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125 <223> OTHER INFORMATION: When Xaa of (1) is Glu which may be derived at the N-
126     terminal, Xaa is Arg or Glu, and when Xaa of (1) is deleted, Xaa
127     is Arg or Glu which may be derived at the N-terminal.
129 <220> FEATURE:
130 <221> NAME/KEY: MISC_FEATURE
131 <222> LOCATION: (3)..(3)
132 <223> OTHER INFORMATION: Xaa is an aromatic amino acid residue.
134 <220> FEATURE:
135 <221> NAME/KEY: MISC_FEATURE
136 <222> LOCATION: (4)..(13)
137 <223> OTHER INFORMATION: Cys at 4-position and Cys at 13-position may be linked by
138     disulfid bond.
140 <220> FEATURE:
141 <221> NAME/KEY: MISC_FEATURE
142 <222> LOCATION: (6)..(6)
143 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
145 <220> FEATURE:
146 <221> NAME/KEY: MISC_FEATURE
147 <222> LOCATION: (7)..(7)
148 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
150 <220> FEATURE:
151 <221> NAME/KEY: MISC_FEATURE
152 <222> LOCATION: (8)..(8)
153 <223> OTHER INFORMATION: Xaa is Pro, Gly, ornithine, Lys, Ala, citrulline, Arg or
154     Glu.
156 <220> FEATURE:
157 <221> NAME/KEY: MISC_FEATURE
158 <222> LOCATION: (9)..(9)
159 <223> OTHER INFORMATION: Xaa is Pro, Gly, ornithine, Lys, Ala, citrulline or Arg.
161 <220> FEATURE:
162 <221> NAME/KEY: MISC_FEATURE
163 <222> LOCATION: (10)..(10)
164 <223> OTHER INFORMATION: Xaa is Tyr, Phe, Ala, naphthyl Ala, citrulline or Glu.
166 <220> FEATURE:
167 <221> NAME/KEY: MISC_FEATURE
168 <222> LOCATION: (11)..(11)
169 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
171 <220> FEATURE:
172 <221> NAME/KEY: MISC_FEATURE
173 <222> LOCATION: (12)..(12)
174 <223> OTHER INFORMATION: Xaa is citrulline, Glu, Arg or Lys.
176 <220> FEATURE:
177 <221> NAME/KEY: MISC_FEATURE
178 <222> LOCATION: (14)..(14)
179 <223> OTHER INFORMATION: Xaa is Arg, Glu, Lys or citrulline which may be derived at
180     the C-terminal.
182 <400> SEQUENCE: 2
W--> 184 Xaa Xaa Xaa Cys Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa
185 1          5          10

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188 <210> SEQ ID NO: 3
189 <211> LENGTH: 14
190 <212> TYPE: PRT
191 <213> ORGANISM: Artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Synthetic
197 <220> FEATURE:
198 <221> NAME/KEY: MISC_FEATURE
199 <222> LOCATION: (1)..(1)
200 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu which
201 may be derived at the N-terminal, or is deleted.
203 <220> FEATURE:
204 <221> NAME/KEY: MISC_FEATURE
205 <222> LOCATION: (1)..(14)
206 <223> OTHER INFORMATION: L-amino acid or D-amino acid
208 <220> FEATURE:
209 <221> NAME/KEY: MISC_FEATURE
210 <222> LOCATION: (2)..(2)
211 <223> OTHER INFORMATION: When Xaa of (1) is Arg, Lys, ornithine, citrulline, Ala or
212 Glu which may be derived at the N-terminal, Xaa is Glu, and when
213 Xaa of (1) is deleted, Xaa is Glu which may be derived at the
216 <220> FEATURE:
217 <221> NAME/KEY: MISC_FEATURE
218 <222> LOCATION: (3)..(3)
219 <223> OTHER INFORMATION: Xaa is an aromatic amino acid residue.
221 <220> FEATURE:
222 <221> NAME/KEY: MISC_FEATURE
223 <222> LOCATION: (4)..(13)
224 <223> OTHER INFORMATION: Cys at 4-position and Cys at 13-position may be linked by
225 disulfid bond.
227 <220> FEATURE:
228 <221> NAME/KEY: MISC_FEATURE
229 <222> LOCATION: (6)..(6)
230 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
232 <220> FEATURE:
233 <221> NAME/KEY: MISC_FEATURE
234 <222> LOCATION: (7)..(7)
235 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
237 <220> FEATURE:
238 <221> NAME/KEY: MISC_FEATURE
239 <222> LOCATION: (8)..(8)
240 <223> OTHER INFORMATION: Xaa is Pro, Gly, ornithine, Lys, Ala, citrulline, Arg or
241 Glu.
243 <220> FEATURE:
244 <221> NAME/KEY: MISC_FEATURE
245 <222> LOCATION: (9)..(9)
246 <223> OTHER INFORMATION: Xaa is Pro, Gly, ornithine, Lys, Ala, citrulline or Arg.
248 <220> FEATURE:
249 <221> NAME/KEY: MISC_FEATURE

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250 <222> LOCATION: (10)..(10)
 251 <223> OTHER INFORMATION: Xaa is Tyr, Phe, Ala, naphthyl Ala, citrulline or Glu.
 253 <220> FEATURE:
 254 <221> NAME/KEY: MISC_FEATURE
 255 <222> LOCATION: (11)..(11)
 256 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu.
 258 <220> FEATURE:
 259 <221> NAME/KEY: MISC_FEATURE
 260 <222> LOCATION: (12)..(12)
 261 <223> OTHER INFORMATION: Xaa is citrulline, Glu, Arg or Lys.
 263 <220> FEATURE:
 264 <221> NAME/KEY: MISC_FEATURE
 265 <222> LOCATION: (14)..(14)
 266 <223> OTHER INFORMATION: Xaa is Arg, Glu, Lys or citrulline which may be derived at
 267 the C-terminal.
 269 <400> SEQUENCE: 3
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 272 1 5 10
 275 <210> SEQ ID NO: 4
 276 <211> LENGTH: 14
 277 <212> TYPE: PRT
 278 <213> ORGANISM: Artificial
 280 <220> FEATURE:
 281 <223> OTHER INFORMATION: Synthetic
 284 <220> FEATURE:
 285 <221> NAME/KEY: MISC_FEATURE
 286 <222> LOCATION: (1)..(1)
 287 <223> OTHER INFORMATION: Xaa is Arg, Lys, ornithine, citrulline, Ala or Glu which
 288 may be derived at the N-terminal, or is deleted.
 290 <220> FEATURE:
 291 <221> NAME/KEY: MISC_FEATURE
 292 <222> LOCATION: (1)..(14)
 293 <223> OTHER INFORMATION: L-amino acid or D-amino acid
 295 <220> FEATURE:
 296 <221> NAME/KEY: MISC_FEATURE
 297 <222> LOCATION: (2)..(2)
 298 <223> OTHER INFORMATION: When Xaa of (1) is Arg, Lys, ornithine, citrulline, Ala or
 299 Glu which may be derived at the N-terminal, Xaa is Arg or Glu,
 300 and when Xaa of (1) is deleted, Xaa is Arg or Glu which may be
 303 <220> FEATURE:
 304 <221> NAME/KEY: MISC_FEATURE
 305 <222> LOCATION: (3)..(3)
 306 <223> OTHER INFORMATION: Xaa is an aromatic amino acid residue.
 308 <220> FEATURE:
 309 <221> NAME/KEY: MISC_FEATURE
 310 <222> LOCATION: (4)..(13)
 311 <223> OTHER INFORMATION: Cys at 4-position and Cys at 13-position may be linked by
 312 disulfid bond.
 314 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/525,838

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Input Set : A:\JP2003-301176 Seq. Listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14 ✓
Seq#:2; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14 ✓
Seq#:3; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14 ✓
Seq#:4; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14 ✓
Seq#:5; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14
Seq#:6; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14
Seq#:7; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14
Seq#:8; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14
Seq#:9; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14
Seq#:10; Xaa Pos. 1,2,3,6,7,8,9,10,11,12,14
Seq#:11; Xaa Pos. 1,4,7,9,13,16
Seq#:12; Xaa Pos. 1,4,9,13,16
Seq#:13; Xaa Pos. 1,4,7,9,13,16
Seq#:14; Xaa Pos. 1,4,7,9,12,13,16
Seq#:15; Xaa Pos. 1,2,4,7,9,13,16
Seq#:16; Xaa Pos. 1,2,4,9,13,16
Seq#:17; Xaa Pos. 1,4,9,12,13,16
Seq#:18; Xaa Pos. 1,2,4,9,12,13,16
Seq#:19; Xaa Pos. 1,4,7,9,13,16
Seq#:20; Xaa Pos. 1,4,7,9,12,13,16
Seq#:21; Xaa Pos. 1,2,4,7,9,13,16
Seq#:22; Xaa Pos. 1,2,4,9,13,16
Seq#:23; Xaa Pos. 1,4,9,12,13,16
Seq#:24; Xaa Pos. 1,2,4,9,12,13,16
Seq#:25; Xaa Pos. 1,2,4,9,13,16
Seq#:26; Xaa Pos. 1,4,9,13,16
Seq#:27; Xaa Pos. 1,4,9,13,16
Seq#:28; Xaa Pos. 1,4,9,13,16
Seq#:29; Xaa Pos. 1,4,9,13,16
Seq#:30; Xaa Pos. 1,4,9,13,16
Seq#:31; Xaa Pos. 1,4,9,13,16
Seq#:32; Xaa Pos. 1,4,7,9,13,16
Seq#:33; Xaa Pos. 1,4,7,9,13,16
Seq#:34; Xaa Pos. 1,4,7,9,13,16
Seq#:35; Xaa Pos. 1,2,4,7,9,13,16
Seq#:36; Xaa Pos. 1,4,7,9,11,13,16
Seq#:37; Xaa Pos. 1,4,7,9,13,16
Seq#:38; Xaa Pos. 1,2,4,7,9,13,16
Seq#:39; Xaa Pos. 1,4,7,9,11,13,16
Seq#:40; Xaa Pos. 1,4,7,9,13,16
Seq#:41; Xaa Pos. 1,4,7,9,13,16
Seq#:42; Xaa Pos. 1,4,7,9,13,16
Seq#:43; Xaa Pos. 1,4,7,9,13,16
Seq#:44; Xaa Pos. 1,3,6,8,12,15

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Input Set : A:\JP2003-301176 Seq. Listing.txt

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Seq#:45; Xaa Pos. 1,4,7,9,13,16
Seq#:46; Xaa Pos. 1,4,7,9,13,16
Seq#:47; Xaa Pos. 1,3,6,8,12,15
Seq#:48; Xaa Pos. 1,3,6,8,12,15
Seq#:49; Xaa Pos. 1,3,6,8,12,15
Seq#:50; Xaa Pos. 1,3,6,8,12,15
Seq#:51; Xaa Pos. 1,3,6,8,12,15
Seq#:52; Xaa Pos. 1,2,4,7,9,13,16
Seq#:53; Xaa Pos. 1,2,4,7,9,13,16
Seq#:54; Xaa Pos. 1,2,4,7,9,13,16
Seq#:55; Xaa Pos. 1,3,6,8,12,15
Seq#:56; Xaa Pos. 1,3,6,8,12,15
Seq#:57; Xaa Pos. 1,4,7,9,13,16
Seq#:58; Xaa Pos. 1,4,7,9,13,16
Seq#:59; Xaa Pos. 1,4,9,13,16
Seq#:60; Xaa Pos. 1,4,7,9,13,16
Seq#:61; Xaa Pos. 1,4,7,9,13,16
Seq#:62; Xaa Pos. 1,4,7,9,13,16
Seq#:63; Xaa Pos. 1,4,9,13,16
Seq#:64; Xaa Pos. 1,4,7,9,13,16
Seq#:65; Xaa Pos. 1,4,7,9,13,16
Seq#:66; Xaa Pos. 1,4,7,9,13,16
Seq#:67; Xaa Pos. 1,4,7,9,13,16
Seq#:68; Xaa Pos. 1,4,7,9,13,16

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68

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Input Set : A:\JP2003-301176 Seq. Listing.txt

Output Set: N:\CRF4\01262006\J525838.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0
L:358 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:444 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0
L:617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:791 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0
L:878 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0
L:923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0
L:963 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:1008 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
L:1058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0
L:1108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0
L:1153 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0
L:1198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0
L:1248 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:1293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0
L:1438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0
L:1483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0
L:1533 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:1618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:1658 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:1698 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1923 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1968 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:2018 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:2068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:2113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:2163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:2213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:2258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:2303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:2348 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:2393 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:2438 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:2483 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0

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L:2573 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
L:2618 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0
L:2663 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0
L:2708 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50 after pos.:0
L:2753 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0
L:2803 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0
L:2853 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0
L:2903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:2948 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0
L:2993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0
L:3038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0
L:3083 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0
L:3123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
L:3168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0
L:3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:3258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0
L:3298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
L:3343 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0
L:3388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
L:3433 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:66 after pos.:0
L:3478 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
L:3523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68 after pos.:0